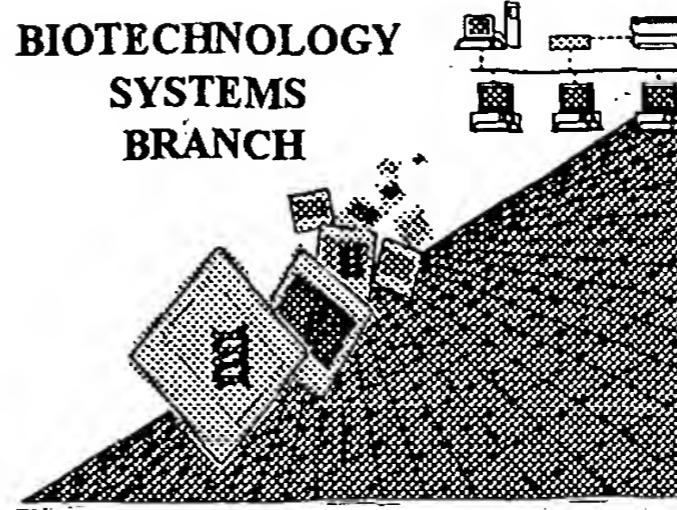


0200700



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/014,099
Source: OIPE
Date Processed by STIC: 1/2/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/014,099</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:03

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Output Set: N:\CRF3\01022002\J014099.raw

5 <110> APPLICANT: KUEHN, Ralf
 7 FELDER, Susanne
 9 SCHWENK, Frieder
 11 KUETER-LUKS, Birgit
 13 FAUST, Nicole
 17 <120> TITLE OF INVENTION: Modified Recombinase
 21 <130> FILE REFERENCE: 012787wo/JH/ml
 25 <140> CURRENT APPLICATION NUMBER: US/10/014,099
 27 <141> CURRENT FILING DATE: 2001-12-11
 31 <160> NUMBER OF SEQ ID NOS: 108
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*Does Not Comply
Corrected Diskette Needed
JYR 6-7*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:03

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175 cgagaccgtc acgaataact tcgtatagca tacattatac gaagttataa gcttgcattc 480
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:03

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:03

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:03

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519 <220> FEATURE:
521 <223> OTHER INFORMATION: Description of Artificial Sequence: vector
523 pCMV-C31-Int(wt)
527 <400> SEQUENCE: 10
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533 cttacggtaa atggcccgcc tggctgaccg cccaacgacc cccgcccatt gacgtcaata 180
535 atgacgtatg ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggac 240
537 tatttacggt aaactgccc cttggcagta catcaagtgt atcatatgcc aagtacgccc 300
539 cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacccta 360
541 tgggactttc ctacttggca gtacatctac gtattagtca tcgctattac catggtgatg 420
543 cggtttggc agtacatcaa tgggcgtgga tagcggtttgc actcacgggg atttccaagt 480
545 ctccacccca ttgacgtcaa tgggagtttgc ttttggcacc aaaatcaacg ggactttcca 540
547 aaatgtcgta acaactccgc cccattgacg caaatggcgc gttagcgtgt acgggtggag 600
549 gtcttatataa gcagagctt ctggcttaact agagaaccca ctgcttactg gcttatcgaa 660
551 attaatacga ctcaactatag ggagacccaa gctgactcta gacttaatta agcgttgggg 720
553 ttagtactcc ctctcaaaaag cgggcatgac ttctgcgcta agattgtcag tttccaaaaaa 780
555 cgaggaggat ttgatattca cctggcccgcc ggtgatgcct ttgagggtgg ccgcgtccat 840
557 ctggtcagaa aagacaatct ttttgttgc aagcttggagg tgtggcaggc ttgagatctg 900
559 gccatacact ttagtgacat tgacatccac tttgccttgc tctccacagg tgtccactcc 960
561 cagggcggcc gccccatatg acacaagggg ttgtgaccgg ggtggacacg tacgcgggtg 1020
563 cttacgacccg tcagtcgcgc gagcgcgaga attcgagcgc agcaagccca ggcacacacg 1080
565 gtagcgccaa cgaagacaag gcggccgacc ttcaagcgcga agtcgagcgc gacggggggcc 1140
567 gtttcaggtt cgtcgggcat ttcaagcgaag cggccggcgc gtcggcgttc gggacggcgg 1200
569 agcgcggcga gttcgaacgc atccctgaacg aatgccgcgc cggccggcgc aacatgatca 1260
571 ttgtctatga cgtgtcgcgc ttctcgcgcc tgaaggcat ggacgcgttccgatttgc 1320
573 cggaaattgtt cgcgcgtggc gtgacgatttgc tttccactca ggaaggcgtc ttccggcagg 1380
575 gaaacgtcat ggacctgatt cacctgatta tgcggctcga cgcgtcgcac aaagaatctt 1440
577 cgctgaagtc ggcgaagatt ctcgacacga agaaccttca ggcgaatttgc ggcgggtacg 1500

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10/014,099 6

<210> 19
<211> 840
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide 80d

<400> 19
ggtaaccgagc tcggatcctc tagtaacggc cgccagtgtg ctgaaattcg gcttcagcaa 60
ccaggctccc cagcaggcag aagtatgcaa agcatgcac tcaatttagtc agcaaccagg 120
tgtggaaagt cccaggctc cccagcaggc agaagtatgc aaagcatgca tctcaattag 180
tcagcaacca tagtcccgcc cctaactccg cccatcccg ccctaactcc gcccagttcc 240
gcccattctc cgccccatgg ctgactaatt ttttttattt atgcagaggc cgaggccgcc 300
tcggcctagg aacagtcgac gacactgcag agacctactt cactaacaac cggtacagtt 360
cgtggaccag atgggtgagg tggagtacgc gcccgggag cccaaaggtt accccagttg 420
gggactact cccaaaaacc gcttctggat ccataacttc gtatacgata cattatacga 480
agttataccg ggccaccatg gtcgcgagta gcttggcact ggggttgctt ttgcgnygtc 540
gtgactggga aaaccctggc gttacccaac ttaatcgct tgcagcacat cccctttcg 600
ccagctggcg taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagct 660
aatggcgaa tggcgcttg cctggcttcc ggcaccagaa gcggtgccgg aaagctggct 720
ggagtgcgat cttcctgagg ccgatactgt cgtcaagccg aattctgcag atatccatca 780
cactggcggc cgctcgagca tgcatacaga gggccaattc gccctatagt gagtcgtatt 840

) see
item 9
in Error
summary
sheet

FJ Use of n and/or Xaa has been detected in the Sequence Listing.
Please review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

10/014,099 ?

The types of errors shown exist throughout
the sequence listing. Please check subsequent
sequences for similar errors.

<210> 23

<211> 620

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: (DNA sequence)
coding for fusion protein C31-Int(CNLS)

<400> 23

(MANDATORY)

insert <220> whenever <221> <222>
or <223>

This is an amino acid ^{is} present
sequence

(see <212> response)

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002
TIME: 14:02:04

Input Set : N:\EBONY'S\ES.txt
Output Set: N:\CRF3\01022002\J014099.raw

L:25 M:270 C: Current Application Number differs, Replaced Application Number
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1861 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:19
L:1861 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:19
L:1861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2811 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:6635 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7051 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7457 M:258 W: Mandatory Feature missing, <220> FEATURE: